



US009638453B2

(12) **United States Patent**  
**Beau et al.**

(10) **Patent No.:** **US 9,638,453 B2**  
(45) **Date of Patent:** **May 2, 2017**

(54) **METHOD FOR FREEZING A PLURALITY OF CONDITIONING TUBES EACH FILLED WITH A PREDETERMINED VOLUME OF BIOLOGICAL SUBSTANCE AND SYSTEM FOR THE IMPLEMENTATION OF SUCH A METHOD**

(58) **Field of Classification Search**

CPC .... A01N 1/01; A01N 1/02; F25D 3/11; F25D 3/105; F25D 17/06; F25D 70/06

USPC ..... 62/62  
See application file for complete search history.

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 572 days.

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(21) Appl. No.: **13/623,677**

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(22) Filed: **Sep. 20, 2012**

(65) **Prior Publication Data**

US 2014/0075968 A1 Mar. 20, 2014

(30) **Foreign Application Priority Data**

Sep. 20, 2012 (FR) ..... 11 58336

(51) **Int. Cl.**

**F25D 31/00** (2006.01)

**F25D 3/10** (2006.01)

**F25D 25/00** (2006.01)

**A01N 1/02** (2006.01)

(52) **U.S. Cl.**

CPC ..... **F25D 3/102** (2013.01); **A01N 1/0252** (2013.01); **A01N 1/0284** (2013.01); **F25D 25/005** (2013.01); **F25D 2400/30** (2013.01)

(57) **ABSTRACT**

A method for freezing a plurality of conditioning tubes is provided, each tube filled with a predetermined volume of biological substance, including arranging each conditioning tube directly into a conditioning unit placed in a cooling enclosure then causing the enclosure to be passed through by a flow of cooling agent and simultaneously driving the conditioning unit (6) in rotation, and providing the unit (6) with a greater capacity than the plurality of tubes; wherein the step of arranging each tube directly in a unit is carried out by placing the plurality of tubes into the unit, and the step of driving the unit in rotation is implemented by setting each tube in motion with respect to the unit and with respect to the other tubes.

**12 Claims, 11 Drawing Sheets**

